



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,780	04/21/2006	Peter Ryser	R.C.101T	5873

23557 7590 03/03/2010
SALIWANCHIK LLOYD & SALIWANCHIK
A PROFESSIONAL ASSOCIATION
PO Box 142950
GAINESVILLE, FL 32614

EXAMINER

BERTHEAUD, PETER JOHN

ART UNIT	PAPER NUMBER
----------	--------------

3746

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

03/03/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

euspto@slspatents.com

**Supplemental
Notice of Allowability**

Application No.

10/576,780

Applicant(s)

RYSER ET AL.

Examiner

PETER J. BERTHEAUD

Art Unit

3746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to response to election/restriction filed 9/30/2009.
2. ☒ The allowed claim(s) is/are 1-17.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/Charles G Freay/
Primary Examiner, Art Unit 3746

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Chris Eisenschenk on 1/12/2009.

The Specification has been amended as follows:

The following headings have been inserted into the Specification in the positions described below:

Field of the Invention; placed prior to the first paragraph on page 1 (line 2).

Background of Invention; placed prior to second paragraph on page 1 (line 6).

Brief Summary of the Invention; placed prior to third paragraph on page 2 (line 18).

Brief Description of the Drawings; placed prior to Figure descriptions on page 6 (line 8).

Detailed Description of the Invention; placed after Figure descriptions on page 7 (line 12).

Claims; placed after the last paragraph on page 13 (line 28) and prior to the claims.

The claims have been amended as follows:

Claim 1 has been amended to now read:

1. A pump system for the pumping of a liquid, having a pump module comprising:

a stator housing with a chamber,
a rotor rotatably and axially slidably received in the chamber and ~~having~~
comprising a first axial extension ~~having~~ comprising a liquid supply channel and a
second axial extension comprising a liquid supply channel, the first and second axial
extensions having different diameters, and
first and second sealing rings, mounted around the first and second axial
~~extensions.~~ extensions,
said liquid supply channel of each axial extension in conjunction with the
corresponding sealing ring forming a valve that opens and closes as a function of the
angular and axial displacement of the rotor.

Claim 9 has been amended to now read:

9. The pump system according to claim 1, further comprising a reservoir 40 containing a
supply of liquid, the pump module being assembled to the reservoir and having
an inlet in liquid communication with the reservoir.

Allowable Subject Matter

3. Claims 1-17 are allowed.
4. The following is an examiner's statement of reasons for allowance: the prior art
does not teach or disclose a rotor rotatably and axially slidably received in a chamber
and comprising a first axial extension comprising a liquid supply channel and a second
axial extension comprising a liquid supply channel, the first and second axial extensions
having different diameters, and first and second sealing rings, mounted around the first

Art Unit: 3746

and second axial extensions, said liquid supply channel of each axial extension in conjunction with the corresponding sealing ring forming a valve that opens and closes as a function of the angular and axial displacement of the rotor.

5. It is noted by the examiner, and stated here for the record of prosecution, that the aspect of the instant invention determined to be novel and patentably distinct from the prior art is the axial extensions comprising liquid supply channels that act as valves when combined with the sealing rings. This limitation in combination with the rotor being both angularly and axially displaced in order to pump the fluid makes the claim read over the prior art.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PETER J. BERTHEAUD whose telephone number is (571)272-3476. The examiner can normally be reached on M-F 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3746

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Charles G Freay/
Primary Examiner, Art Unit 3746

PJB
/Peter J Bertheaud/
Examiner, Art Unit 3746